CAT 2024 Slot 3 DILR Question Paper

Read the Passage carefully and Answer the following quesstions.
An air conditioner (AC) unit has three operating modes: Eco, Normal, and Turbo. The power consumption in each mode is as follows: Eco mode consumes 1000 watts, Normal mode consumes 1200 watts, and Turbo mode consumes 1500 watts. Yesterday, the AC was in operation from 2 PM to 10 PM. From 2 PM to 6 PM it ran in Eco mode. From 6 PM to 8 PM, it ran in Normal mode. From 8 PM to 10 PM it ran in Turbo mode.

Questions:
1. What is the total energy consumed by the AC in Eco mode (in kilowatt-hours)?
(1) 4 kWh
(2) 0.4 kWh
(3) 40 kWh
(4) 0.04 kWh

2. What is the total energy consumed by the AC in Normal mode (in kilowatt-hours)?
(1) 2.4 kWh
(2) 24 kWh
(3) 0.24 kWh
(4) 240 kWh

3. What is the total energy consumed by the AC in Turbo mode (in kilowatt-hours)?
(1) 5 kWh
(2) 0.5 kWh
(3) 50 kWh
(4) 0.05 kWh

4. What is the total energy consumption for the entire 8 hours of operation (in kilowatt-hours)?
(1) 6.9 kWh
(2) 69 kWh
(3) 0.69 kWh
(4) 690 kWh

5. If the cost of electricity is 8 per kilowatt-hour, what was the total cost of running the AC yesterday?

Read the Passage carefully and Answer the following quesstions

A health food store specializing in dietary supplements and whole grains recorded the following sales figures (in kilograms) for various food categories last month: Millets (M) = 500 kg at a cost price of 40/kg and selling price of 50/kg; Protein supplements (P) = 300 kg at a cost price of 80/kg and selling price of 100/kg; Vitamin supplements (V) = 200 kg at a cost price of 60/kg and selling price of 80/kg; Carbohydrates (C) = 600 kg at a cost price of 80/kg and selling price of 100/kg; Fats (F) = 100 kg at a cost price of 120/kg and selling price of 150/kg. Additionally, they sold 50 kg of mixed nuts (N) at a cost price of 100/kg and a selling price of 130/kg.

Questions:
6. What is the total weight (in kg) of Millets and Carbohydrates sold last month?
(1) 700 kg
(2) 1100 kg
(3) 500 kg
(4) 600 kg

7. What was the total revenue (in) from the sales of Millets and Protein supplements?
(1) 25000
(2) 80000
(3) 55000
(4) 35000

8. What was the total profit (in) earned from the sale of Vitamin supplements?
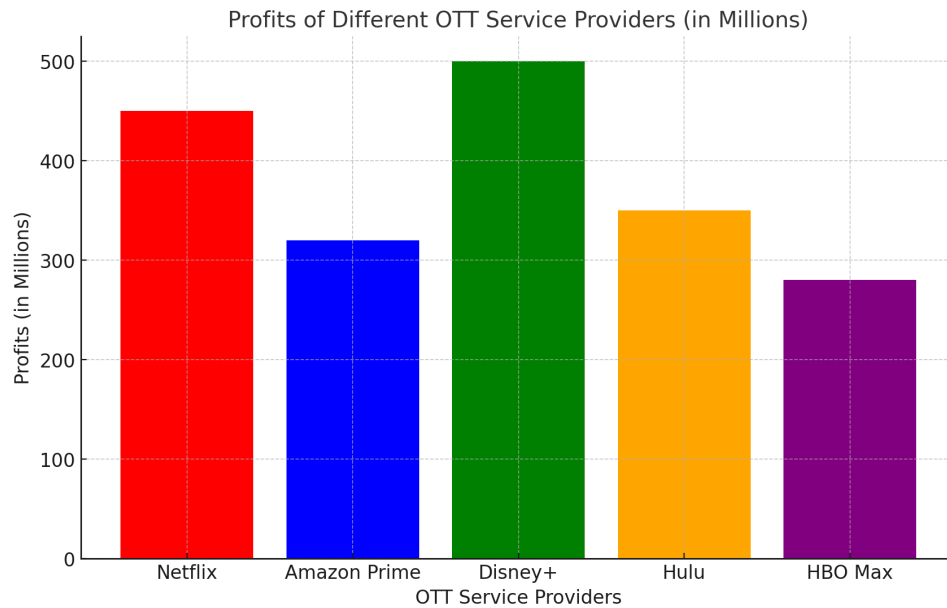(1) 2000
(2) 4000
(3) 6000
(4) 8000

9. What was the total cost (in) of the Carbohydrates and Fats purchased by the store?
(1) 60000
(2) 72000
(3) 48000
(4) 12000

10. What percentage of the total revenue was generated by the sale of Mixed Nuts?
(1) 7%
(2) 5%
(3) 9%
(4) 10%

Analyse the bar graph carefully and Answer the following quesstions.

Profits of Different OTT Service Providers (in Millions)

11. Which OTT service provider has the highest profit?
A) Netflix
B) Amazon Prime
C) Disney+
D) Hulu

12. What is the total profit of Netflix and Amazon Prime combined?
A) 750 million
B) 770 million
C) 780 million
D) 800 million

13. How much more profit did Netflix make compared to Hulu?
A) 100 million
B) 120 million
C) 150 million
D) 170 million

14. Which OTT service provider has the least profit?
A) Netflix
B) Amazon Prime

C) Hulu
D) HBO Max

15. What is the average profit of all the OTT service providers?
A) 370 million
B) 380 million
C) 390 million
D) 400 million